

FUNDAMENTAL 128-BIT PACKED SIMD DATA TYPES

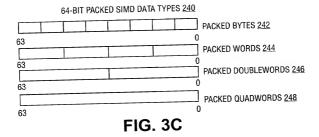
			PACKED BYTES 221
127		0	
			PACKED WORDS 222
127		0	1
			PACKED DOUBLEWORDS 223
127		0	
			PACKED QUADWORDS 224
127		0	

FIG. 3A

128-BIT PACKED FLOATING-POINT AND INTEGER DATA TYPES

							PACKED SINGLE PRECISION FLOATING POINT 230
27	 		 			(PACKED DOUBLE PRECISION
27	 		 L				FLOATING POINT 231
\Box		\perp		\perp	\prod		PACKED BYTE INTEGERS 232
27						()
							PACKED WORD INTEGERS 233
27						()
							PACKED DOUBLEWORD INTEGERS 234
27						() INTEGERIO <u>234</u>
	 						PACKED QUADWORD INTEGERS
27							235

FIG. 3B



64-BIT PACKED FLOATING POINT & INTEGER DATA TYPES 250

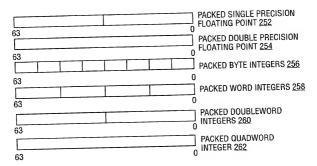
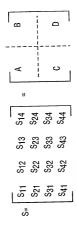


FIG. 3D



SOURCE MATRIX 300

FIG. 4A MATRIX SUBDIVISION

$$312 \\ 324$$

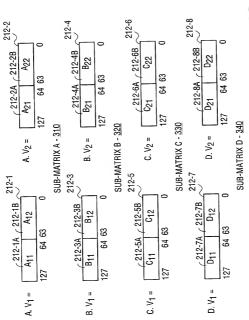


FIG. 4D

REGISTER REPRESENTATION

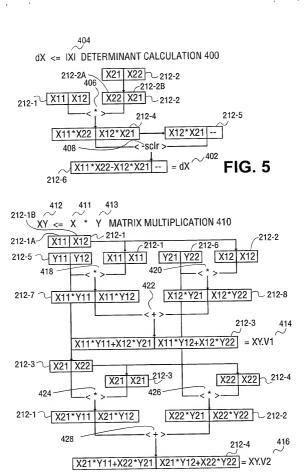


FIG. 6

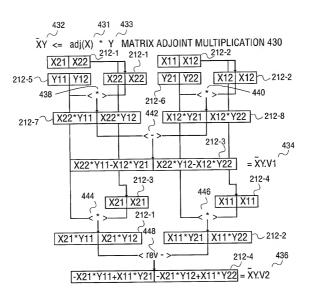
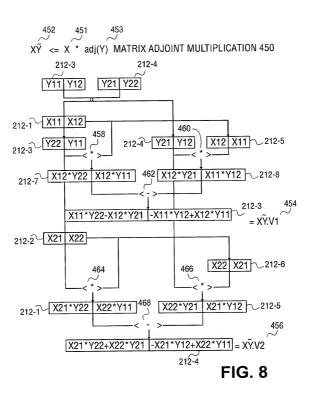
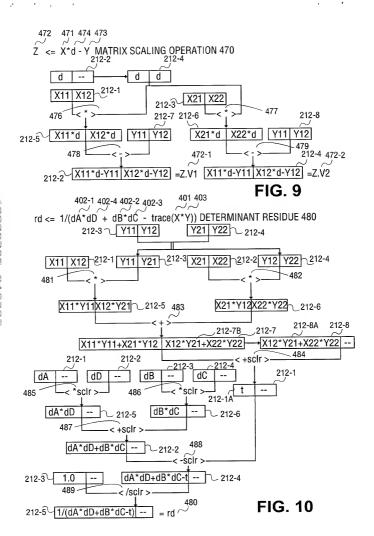


FIG. 7





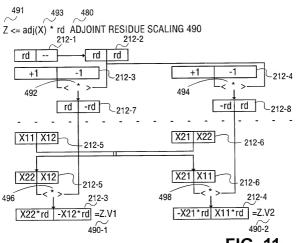
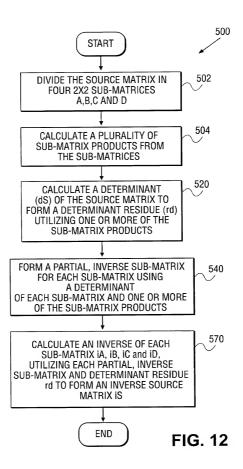


FIG. 11



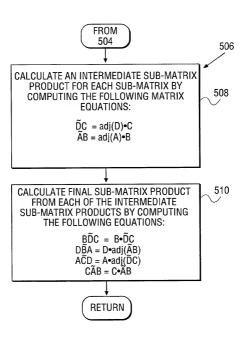


FIG. 13

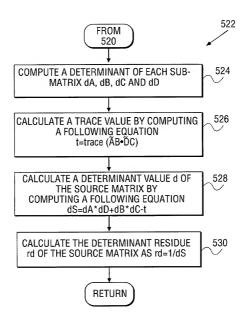


FIG. 14

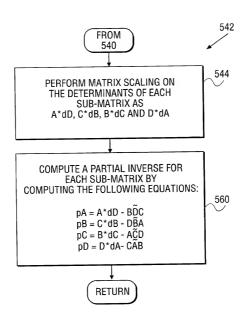


FIG. 15

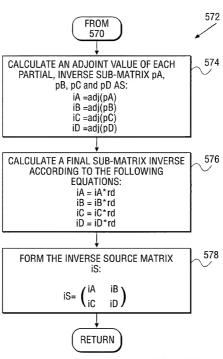
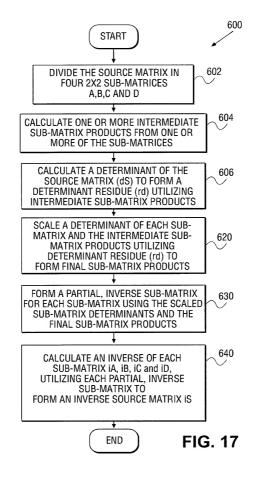


FIG. 16



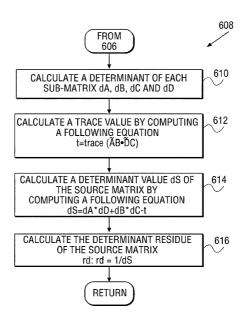


FIG. 18

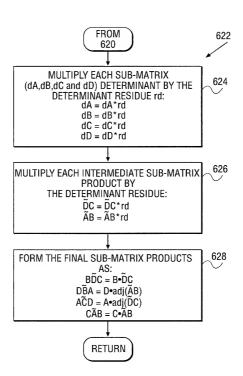


FIG. 19

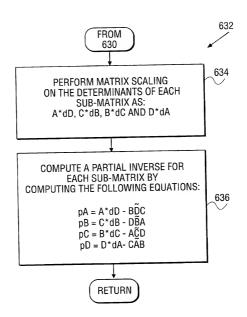


FIG. 20

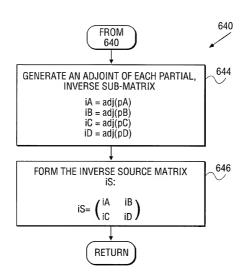


FIG. 21